

Claims

What is claimed is:

1. A method of transferring a file to or from a server past a firewall, comprising the steps of:
  - accessing a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;
  - receiving the web page and the applet from the web site;
  - sending the applet to an application at a file transfer gateway; and
  - transferring the file between the file transfer gateway and the server through the firewall.
2. A method as in claim 1, wherein the web site is at a collaboration manager separate from the server.
3. A method as in claim 1, wherein the applet is signed responsive to authorization of a user accessing the web site.
4. A method as in claim 1, wherein accessing the web site and receiving the web page and the applet are performed using a web browser.

1           5. A method as in claim 4, wherein the web browser and the file transfer gateway  
2 are implemented on a client.

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4           6. A method as in claim 1, wherein the application at the file transfer gateway is a  
5 file transfer service implemented on a client or edgebox.

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7           7. A method as in claim 6, wherein transferring the file between the file transfer  
8 gateway and the server is performed over a virtual channel between the file transfer service at the  
9 file transfer gateway and a file transfer adapter at the server.

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11           8. A method as in claim 1, wherein the file is transferred in chunks.

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13           9. A method as in claim 9, wherein the chunks are transferred using a basic  
14 hypertext transport mechanism.

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16           10. A method as in claim 1, further comprising the step of encrypting, decrypting,  
17 or performing some other operation on the file before or after transferring the file.

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19           11. A method of transferring a file to or from a server past a firewall, comprising  
20 the steps of:

21           authenticating access by a requestor to a web site behind the firewall, the web site  
22 having a web page including an applet, and the web site associated with the server;

1 sending the web page and the applet to the requestor;  
2 receiving a request from the requestor to transfer the file to or from the requestor;  
3 transferring the file between the file transfer gateway and the server through the  
4 firewall.

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6 12. A method as in claim 11, wherein the requestor is a browser or edgebox.

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8 13. A method as in claim 11, wherein the applet is signed responsive to  
9 authorization of the requestor.

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11 14. A method as in claim 11, wherein the web site is at a collaboration manager  
12 separate from the server.

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14 15. A method as in claim 11, wherein transferring the file between the file  
15 transfer gateway and the server is performed over a virtual channel between a file transfer service  
16 at the file transfer gateway and a file transfer adapter at the server.

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18 16. A method as in claim 11, wherein the file is transferred in chunks.

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20 17. A method as in claim 16, wherein the chunks are transferred using a basic  
21 hypertext transport mechanism.

1           18. A method as in claim 11, further comprising the step of encrypting,  
2 decrypting, or performing some other operation on the file before or after transferring the file.  
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4           19. A method of downloading a file from a server past a firewall, comprising the  
5 steps of:

6           registering with the server behind the firewall;  
7           polling the server for files to be downloaded; and  
8           downloading the file from the server through the firewall over a virtual channel;  
9           wherein the file is transferred in chunks using a basic hypertext transport  
10 mechanism.

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12           20. A method as in claim 19, further comprising the step of encrypting,  
13 decrypting, or performing some other operation on the file before or after transferring the file.  
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15           21. A method of downloading a file from a server past a firewall, comprising the  
16 steps of:

17           receiving a registration at the server behind the firewall;  
18           receiving polling of the server for files to be downloaded; and  
19           downloading the file from the server through the firewall over a virtual channel;  
20           wherein the file is transferred in chunks using a basic hypertext transport  
21 mechanism.  
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- 1                    22. A method as in claim 21, further comprising the step of encrypting,
- 2    decrypting, or performing some other operation on the file before or after transferring the file.